

# SCHOTTKY BARRIER RECTIFIERS

DIODES INCORPORATED

OPERATING TEMPERATURE RANGE  
20 to 45V -65°C to +125°C  
50 and 60V -65°C to +150°C  
STORAGE TEMPERATURE RANGE -65°C to +150°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz:		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV		Maximum Forward Voltage @ 25°C TA	
	PRV	I <sub>o</sub> @ T <sub>C</sub>		I <sub>FM</sub> (Surge)	I <sub>R</sub> @ T <sub>C</sub>		I <sub>FM</sub>	V <sub>FM</sub>
	V <sub>PK</sub>	A <sub>AV</sub>	°C	A <sub>PK</sub>	mA <sub>dc</sub>	°C	A <sub>PK</sub>	V <sub>PK</sub>



## 20/30 AMPERS SCHOTTKY/TO-3P

SR2020	20	20	95	120	15	25	10	0.55
SR2030	30	20	95	120	15	25	10	0.55
SR2045	45	20	95	120	15	25	10	0.55
SR3030	30	30	75	300	10	25	15	0.65
SR3040	40	30	75	300	10	25	15	0.65
SR3045	45	30	75	300	10	25	15	0.65
SR3050	50	30	100	300	10	25	15	0.75
SP3060	60	30	100	300	10	25	15	0.75
SD241P	45	30	95	400	*100	125	20	0.60

NOTE: 1. Standard type = common cathode, Common Anode = Suffix "A", Doubler Connection = Suffix "D".  
2. \* @ 125°C, V<sub>R</sub> = 35V



## 30 AMPERES SCHOTTKY/TO-220

NST2525	25	30	125	150	2.0	25	30	0.82
NST2535	35	30	125	150	2.0	25	30	0.82
NST2545	45	30	125	150	2.0	25	30	0.82

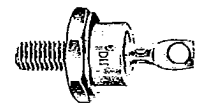
NOTE: Standard type = Common Cathode, Common Anode = Suffix "A", Doubler Connection = Suffix "D".



## 30 AMPERES SCHOTTKY/TO-3

NSM3020	20	30	100	300	10	25	15	0.65
NSM3030	30	30	100	300	10	25	15	0.65
NSM3035	35	30	100	300	10	25	15	0.65
NSM3040	40	30	100	300	10	25	15	0.65
NSM3045	45	30	100	300	10	25	15	0.65
SD241	45	30	95	400	**100	25	*20	0.65

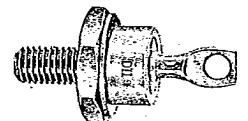
NOTE: 1. Standard Type = Common Cathode, Common Anode = Suffix "A", Doubler Connection = Suffix "D".  
2. \*\*\*\* @ 125°C, V<sub>R</sub> = 35V  
3. \*V<sub>F</sub> TEST @ T<sub>C</sub> = 125°C



## 30 AMPERES SCHOTTKY/DO-4

NSD3020	20	30	125	500	150	125	30	*0.60
NSD3030	30	30	125	500	150	125	30	*0.60
NSD3045	45	30	125	500	150	125	30	*0.60

NOTE: 1. \*V<sub>F</sub> TEST @ T<sub>C</sub> = 125°C  
2. Suffix "R" for reverse polarity



## 40/50/60 AMPERES SCHOTTKY/DO-5

1N5832	20	40	75	800	150	100	40	0.52
1N5833	30	40	75	800	150	100	40	0.55
1N5834	40	40	75	800	150	100	40	0.59
1N6097	30	50	70	800	250	115	157	*0.86
1N6098	40	50	70	800	250	115	157	*0.86
SD51	45	60	95	800	200	125	60	** 0.70

NOTE: 1. \*V<sub>F</sub> TEST @ T<sub>C</sub> = 70°C, \*\* V<sub>F</sub> TEST @ T<sub>C</sub> = 125°C  
2. Suffix "R" for reverse polarity.